



	EXISTING SPOT ELEVATION
	EXISTING EDGE OF TREES
	EXISTING FENCE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING PROPERTY LINE
	EXISTING INTERIOR PARCEL LINE
	EXISTING EDGE OF HEAVY FOLIAGE
	EXISTING ABOVE-GROUND ELECTRIC LINE ALIGNMENT
	EXISTING POLE SUPPORTING ELECTRIC LINE
	EXISTING RAILROAD
	EXISTING STORMWATER CULVERT
	LIMIT OF LANDFILL LINER SYSTEM (APPROX. BOUNDARY OF LANDFILL)
	EXISTING UNPAVED ACCESS ROAD
	EXISTING PERIMETER DRAINAGE CHANNEL & FLOW DIRECTION
	PROPOSED FINAL GRADE (MINOR CONTOUR)
	PROPOSED FINAL GRADE (MAJOR CONTOUR)

Perimeter Channel Dimensions – East Side						
Channel	Station	Bottom Width (ft) B	Side Slope Z	Channel Depth (ft) D	Bed Slope (ft/ft)	Lining
CP-2C	02+24 – 06+60	4	2:1	2	0.012	R-4 Riprap

1. INFORMATION SHOWN HEREON REGARDING EXISTING FEATURES, GROUND TOPOGRAPHY AND PROPERTY/EASEMENT LINES BASED ON A GROUND SURVEY COMPLETED IN APRIL 2005 AND UPDATED THROUGH FEBRUARY 2007 BY VANDEMARK & LYNCH, INC., 4305 MILLER RD., PO BOX 2047, WILMINGTON, DE 19899, (302) 764-7635. SURVEY CONTROLS ARE AS FOLLOWS:

HORIZONTAL DATUM: PREMCOR DELAWARE CITY PLANT
VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM 1929

BENCHMARK: PLANT CONTROL MONUMENT #208 LOCATED APPROXIMATELY 70' WEST OF WEST 6TH STREET AT THE CENTERLINE OF Q STREET EXTENDED AND 43.2' SOUTH OF A CHAIN LINK FENCE. ELEVATION = 65.35'

2. ALL WORK SHALL BE PERFORMED AND COMPLETED TO SATISFY THE REQUIREMENTS OF THE DNREC IWL OPERATING PERMIT, DATED FEBRUARY 26, 2004.
3. CONTRACTOR SHALL SECURE ALL PERMITS REQUIRED BY VALERO, MOTIVA AND DNREC TO PERFORM THE WORK PRIOR TO COMMENCEMENT OF WORK.
4. THE PROPOSED CHANNEL CENTERLINE ELEVATION REPRESENTS THE TOP OF LINING ELEVATION.
5. SIZES, MATERIALS, AND FINAL GRADES OF CHANNEL CULVERTS WILL BE FINALIZED WITH CONSTRUCTION LEVEL DRAWINGS.
6. SEE SHEETS C-50 THROUGH C-52 FOR CROSS-SECTIONS.

REVISIONS				
NO.	BY	CHKD	DATE	DESCRIPTION
△				
△				
△				
△				
△				
△	SMS	JAC	10/30/07	REVISED TO ADDRESS DNEPC COMMENTS
△	SMS	JAC	02/02/08	SUBMITTED WITH CLOSE PLAN FOR DNEPC REVIEW

0 0.5 1.0

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

IF THE SEAL ON THIS PLAN IS NOT RED OR RAISED THEN THIS PLAN MAY HAVE BEEN ALTERED AND RECOPIED. ORIGINAL SEALS ARE STAMPED IN RED INK OR EMBOSSED WITH A CRIMPING SEAL

PLANS ISSUED BY:

335 COMMERCE DRIVE, STE 300
FORT WASHINGTON, PA 19034
TEL: (215) 367-2500
FAX: (215) 367-1000

		DATE
DESIGNED BY:	NBL	10/13/05
DRAWN BY:	SMS	02/02/06
CHECKED BY:	PJD	10/30/07
APPROVED BY:	JAC	10/30/07
CLIENT APPROVED BY:		

DELAWARE CITY REFINERY
INDUSTRIAL WASTE LANDFILL CLOSURE
PERIMETER CHANNEL PLAN & PROFILE
EAST SIDE (SHEET 1 OF 4)

JOB NO. 20240421		SCALE: AS SHOWN	
ORIGINAL DATE: 03/01/05	LAST REVISED: 10/30/07		REV 1
DRAWING NO.			

C-40